

Substitute Abstract
Application No. 09/345,969
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ABSTRACT OF THE DISCLOSURE

A communication system for communicating on a network that includes communication devices performs communications in a connected mode or a non-connected mode. For at least one of the communication devices, to effect a transmission in the connected mode, the system performs an information operation during which an item of information representing a passband necessary for the transmission in the connected mode is broadcast on the network. The system performs a passband allocation operation to allocate the passband for connected-mode transmissions, based on the item of information. A second allocation operation is performed to allocate, for non-connected-mode transmissions, all or part of the passband not allocated for the connected-mode transmissions. The system adjusts the allocated passband to avoid congestion on the network.